

## CLAIMS:

1. A telecommunications device for a system comprising at least a base station and a plurality of secondary stations including circuits for relaying information, characterized in that the secondary stations comprise a plurality of transceiver devices for exchanging information with other stations (base stations and/or secondary stations).

2. A telecommunications device as claimed in claim 1, characterized in that the system is an ODMA system.

3. A telecommunications device as claimed in claim 1 or 2 characterized in that the plurality of transceiver devices are MIMO-type.

4. A telecommunications system comprising at least a base station and a plurality of secondary stations as claimed in claim 1, 2 or 3, including circuits for relaying information, characterized in that the secondary stations comprise a plurality of transceiver devices for exchanging information with other stations (base stations and/or secondary stations).

5. A telecommunications system as claimed in claim 4, characterized in that it is an ODMA system.

6. A transmission method for a telecommunications system comprising at least a base station and a plurality of secondary stations as claimed in claim 1, 2 or 3, including circuits for relaying information, characterized in that, for ensuring a transmission, it comprises a step according to which the secondary stations carry out space-diversity transmission and also space-diversity reception.